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PATENT

Customer No. 22,852

Attorney Docket No. 9960.0002-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Keith Henry Stockman Campbell et al.

Serial No.: 09/225,233

Filed: January 4, 1999

For: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**LETTER**

Applicants submit herewith a Revocation of Power of Attorney and Grant of New Power of Attorney and associated papers in the above-referenced application.

Kindly associate these papers with this application.

Respectfully submitted,

Dated: April 26, 2006

By: \_\_\_\_\_

Salvatore J. Arrigo

Reg. No. 46,063

Telephone: 202-408-4160

Facsimile: 202-408-4400

E-mail: arrigos@finnegan.com



PATENT  
Customer No. 22,852

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Campbell et al.

U.S. Patent No. 6,147,276  
(filed as Appln. No. 08/802,282)  
Appln. No. 09/225,233  
Appln. No. 10/915,338

)  
)  
) Group Art Unit: 1632  
)  
) Examiner: D. Crouch  
)  
)  
)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**REVOCATION OF POWER OF ATTORNEY  
AND GRANT OF NEW POWER OF ATTORNEY**

The undersigned, a representative authorized to sign on behalf of the assignee owning all of the interest in this patent application, hereby revokes all previous powers of attorney or authorization of agent granted in this application before the date of execution hereof.

The undersigned verifies that Roslin Institute (Edinburgh) is the assignee of the entire right, title, and interest in the patents and applications identified above by virtue of assignments recorded at Reel 8622, Frames 0299-300 (copy attached); Reel 9219, Frames 0945-0951 (copy attached); and Reel 017336, Frame 0136 (copy attached).

The undersigned certifies that the evidentiary documents have been reviewed and to the best of the undersigned's knowledge and belief, title is in the assignee Roslin Institute (Edinburgh).

The undersigned hereby grants its power of attorney to the patent practitioners associated with **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Customer Number 22,852**, to prosecute U.S. 6,147,276; and all continuations, continuations-in-part, divisional, and reissue applications therefrom dependent including:

Appln. No. 09/225,233  
Appln. No. 10/915,338

and to transact all business in the Patent and Trademark Office connected therewith, and to receive the Letters Patent(s).

Please send all future correspondence concerning this application to **Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., Customer No. 22,852**.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: 11<sup>th</sup> April 2006

By: Clare A. Neilson  
Name: CLARE AGNES NEILSON

Title: COMPANY SECRETARY

Roslin Institute (Edinburgh)



JUL 29 1997

THE UNIVERSITY OF CHICAGO

RECEIPT ACCTING. 117

100505082

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)

Keith Henry Stockman CAMPBELL and Ian WILLIAMS

Additional name(s) of conveying party(ies) attached Yes X No

### 3. Nature of conveyance

<u>1</u>	Assignment	<u>  </u>	Merger
<u>  </u>	Security Agreement	<u>  </u>	Change of Name
<u>  </u>	Other		

Execution Date, May 23, 1907

2 Name and address of receiving party(ies)

Name: Roxlin Institute (Edinburgh)

Internal Address

Street Address, Roslin

City: Midlothian EH12S 9PS State/Country: GREAT BRITAIN

Additional name(s) & address(es) attached? Yes X No.

4. Application number(s) or patent number(s)

If the document is being filed together with a new application, the execution date of the application is:

A Patent Application No(s) 08/802,282, filed February 19, 1997

13 Patent Nos.).

Additional numbers attached?    Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed

**Name: LOWE PRICE LEBLANC & BECKER**

**Internal Address**

Street Address 94 Canal Center Plaza, Suite 300

City Alexandria State VA ZIP 22314

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.11) . . . . . \$40.00**Finished**

X Authorized to be charged to deposit account

8 Deposit account number:

**12-2237**

**DO NOT USE THIS SPACE**

**9. Statement and signature.**

To the best of my knowledge and belief the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert L. Price. 22,685

Name and Registration No. of Person Signing

**Signature**

July 29, 1997  
Date

Total number of pages comprising cover sheet: 1

[illegible]

PATENT - - - - -  
REEL: 8622 FRAME: 0299

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned:

1. KEITH HENRY STOCKMAN CAMPBELL  
2. Ian Wilmut

and have made a certain new and useful invention, hereby sell, assign and transfer unto  
Roslin Institute (Edinburgh), Roslin, Midlothian EH25 9PS, Great Britain

its successors and assigns hereinafter designated "ASSIGNEE" the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled:

QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

for which an application for United States Letters Patent was filed on February 19, 1997, and identified by United States Serial No. 08 802,282, or

for which an application for United States Letters Patent was executed on May 22<sup>nd</sup> 1997

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest in ASSIGNEE, its successors, assigns and legal representatives. The undersigned agree that the attorneys of record in said application and hereafter act on behalf of said ASSIGNEE.

AND the undersigned hereby agree to transfer a like interest and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration in and to any improvements, and applications for patent based thereon growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated above our signatures

INVENTORS

DATE SIGNED

1. Name: Keith Henry Stockman Campbell  
2. Name: Ian Wilmut  
3. Name:  
4. Name:  
5. Name:  
6. Name:

May 23<sup>rd</sup> 1997

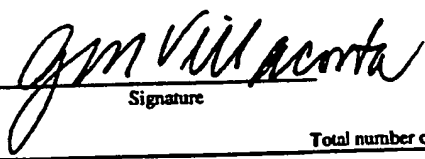
RECORDED: 07/29/1997

PATENT  
REF: 8622 FRAME: 0300

MRD 5-29-98

06-10-1998  
100733738  
RECORDATION



FOR 4 PTO-1596 1-31-92		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
DOCKET NO.: 2980-004		PATENTS ONLY	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:			
1. Name of conveying party(ies): ROSLIN INSTITUTE (EDINBURGH)		2. Name and address of receiving party(ies): Name: <u>Roslin Institute (Edinburgh)</u> Internal Address:  Street Address: <u>Roslin</u>  City: <u>Midlothian EH25 9PS</u> State/Country: <u>GREAT BRITAIN</u> ZIP: Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other			
Execution Date: <u>March 26, 1998 and April 7, 1998</u>			
4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s). <u>08/803,282</u> , filed February 19, 1997 B. Patent No(s). Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Gilberto M. Villacorta, PEPPER HAMILTON LLP</u> Internal Address:  Street Address: <u>1300 Nineteenth St., N.W.</u>  City: <u>Washington, D.C.</u> State: <u></u> ZIP: <u>20036</u>		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>50-0436</u>	
06/08/1998 PH: JUYEN 00000167 500436 00003282 01 FC:58 40.00 CH DO NOT USE THIS SPACE			
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Gilberto M. Villacorta 34,038 Name and Registration No. of Person Signing   Signature  May 29, 1998 Date  Total number of pages comprising cover sheet: <u>2</u>			

4B No. 0851-0011 (exp. 4/94)  
Docu sent # 71087

PATENT  
REEL: 9219 FRAME: 0945

**DOCKET NO.: 2980-004**

**Continuation of Recordation Cover Sheet, Item # 2:**

The Minister of Agriculture, Fisheries and Food  
Notel House  
17 Smith Square  
London, SW1P 3JR

Bio-technology and Biological Sciences Research Council  
Polaris House  
North Star Avenue  
Swindon, SN2 1UH

**PATENT**  
**REEL: 9219 FRAME: 0946**

**PATENT ASSIGNATION**

by

**(1) ROSLIN INSTITUTE (EDINBURGH).**

in favour of

**ROSLIN INSTITUTE (EDINBURGH); THE MINISTER OF AGRICULTURE,  
FISHERIES AND FOOD; and BIOTECHNOLOGY and BIOLOGICAL SCIENCES  
RESEARCH COUNCIL**

**1998**

**Wright Johnston & Mackenzie  
Solicitors  
12 St Vincent Place  
Glasgow G1 2EQ**


**(Ref: A00020016/KMC/JCH)**

**PATENT  
REEL: 9219 FRAME: 0947**



## PATENT ASSIGNATION

by

- 
- (1) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("the Assignor")

in favour of

- (2) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS and **THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD** of Nobel House, 17 Smith Square, London, SW1P 3JR acting through the Ministry of Agriculture, Fisheries and Food; and **BIOTECHNOLOGY and BIOLOGICAL SCIENCES RESEARCH COUNCIL**, whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH (collectively referred to as "the Assignees")

### WHEREAS

- (A) The Assignor is the proprietor of the Patent Applications set out in the Schedule annexed and executed as relative hereto (the "Patent Applications");
- (B) The Assignor has agreed to assign the Patent Applications to the Assignees; and
- (C) The Assignees have agreed to hold the Patent Applications and any granted patents issuing from such applications subject to a Co-Ownership Agreement to be entered into of even date herewith by the parties to this Agreement.

NO'V IT IS HEREBY AGREED as follows:-

#### 1. Assignment

The Assignor hereby assigns to the Assignees as joint owners the entire right, title and interest of the Assignor in and to the Patent Applications and any patents or other similar forms of protection granted pursuant to the Patent Applications together with the right to recover and to take all such proceedings as may be necessary for the

recovery of damage and other forms or relief in respect of all infringements of the Patent Applications whether taking place before or after the date of this Assignment.

## 2. Further Assurance

Each party agrees generally to sign, seal, execute and deliver all documents, deeds, licences and agreements and to do all acts and things which may be required or may be deemed necessary that any party for giving effect to this Assignment including, without limitation, entry into instruments confirmatory of such rights for registration with appropriate authorities anywhere in the world.

## 3. Governing Law

This Agreement shall be governed by Scots Law and the parties agree to submit to the non exclusive jurisdiction of the Scottish Courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule annexed hereto are executed as follows:-

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by Scott McGregor Lawrie their duly authorised signatory at London on 26<sup>th</sup> March 1998 before the following witness:-

Witness: Justine A Strong  
 Full Name: JUSTINE ANN STRONG  
 Address: 12, ST VINCENT PLACE  
GLASGOW  
 Occupation: TRAINER SOLICITOR

Scott McGregor Lawrie  
 Authorised Signatory

Subscribed for and on behalf of THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD by Dr Anthony Richard Burne, duly authorised signatory at London on 26<sup>th</sup> March 1998 before the following witness:-

Witness: Marglyn Wicks  
 Full Name: MRS. MARYLYN WICKS  
 Address: ST. CHRISTOPHER HOUSE  
SOUTHWARK ST, LONDON  
 Occupation: CIVIL SERVANT.

Dr Anthony Richard Burne  
 Authorised Signatory

PATENT

REF.: 9219 FRAME: 0949

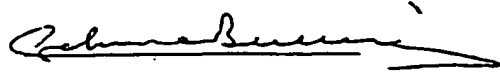
Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by Professor  
Grahame John Bulfield, Director and Chief Executive, at Roslin on 7<sup>th</sup> April  
1992 before the following witness:-

Witness: Clare A. Noh

Full Name: C. LEBB AINING NEWSON

Address: 12 ST. VINCENT PLACE  
GLASGOW

Occupation: SOLICITOR



This is the Schedule referred to in the Assignment by (1) Roslin Institute (Edinburgh) in favour of (2) Roslin Institute (Edinburgh); The Minister of Agriculture, Fisheries and Food; and Biotechnology and Biological Sciences Research Council

**1. Inactivated Oocytes and Cytoplasm Recipients for Nuclear Transfer (MAGIC)**

Filing Date	Priority Date	Country	Application No
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	International	PCT/GB96/02098
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	South Africa	96/7383
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	USA	08/803,165

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

**2. Quiescent Cell Populations for Nuclear Transfer (Quiescence)**

Filing Date	Priority Date	Country	Application No
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	International	PCT/GB96/02099
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	South Africa	96/7390
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	USA	08/802,282

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

Scott M. Hamilton ESQ

*Albana*

*John B. Bue*  
RECORDED: 05/29/1998

PATENT  
REEL: 9219 FRAME: 0951

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 21, 2006

PTAS

**\*700250393A\***

\*700250393A\*

FINNEGAN, HENDERSON, FARABOW, GARRETT &  
LLP  
901 NEW YORK AVENUE, NW  
WASHINGTON, DC 20001-4413UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/14/2006

REEL/FRAME: 017336/0136  
NUMBER OF PAGES: 10BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 9960.0002-02ASSIGNOR:  
ROSLIN INSTITUTE (EDINBURGH)

DOC DATE: 06/30/2003

ASSIGNOR:  
SECRETARY OF STATE FOR  
ENVIRONMENT, FOOD & RURAL  
AFFAIRS

DOC DATE: 06/30/2003

ASSIGNOR:  
BIOTECHNOLOGY AND BIOLOGICAL  
SCIENCES RESEARCH COUNCIL  
(BBSRC)

DOC DATE: 05/22/2003

017336/0136 PAGE 2

## ASSIGNEE:

ROSLIN (EDINBURGH)

ROSLIN

MIDLOTHIAN, EH25 9PS, UNITED

KINGDOM

SERIAL NUMBER: 08802282

PATENT NUMBER: 6147276

TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION  
OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

FILING DATE: 02/19/1997

ISSUE DATE: 11/14/2000

SERIAL NUMBER: 08803165

PATENT NUMBER: 6252133

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM  
QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

FILING DATE: 02/19/1997

ISSUE DATE: 06/26/2001

SERIAL NUMBER: 09225233

PATENT NUMBER:

TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

FILING DATE: 01/04/1999

ISSUE DATE:

SERIAL NUMBER: 09658862

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 09/08/2000

ISSUE DATE:

SERIAL NUMBER: 09650194

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 08/29/2000

ISSUE DATE:

SERIAL NUMBER: 09650285

PATENT NUMBER: 6525243

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL  
NUCLEI WHILE MAINTAINING CORRECT PLOIDY

FILING DATE: 08/29/2000

ISSUE DATE: 02/25/2003

SERIAL NUMBER: 09973701

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 10/11/2001

ISSUE DATE:

SERIAL NUMBER: 09989125

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 11/21/2001

ISSUE DATE:

SERIAL NUMBER: 09989128

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 11/21/2001

ISSUE DATE:

SERIAL NUMBER: 09989126

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 11/21/2001

ISSUE DATE:

SERIAL NUMBER: 10118337

FILING DATE: 04/09/2002

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

017336/0136 PAGE 3

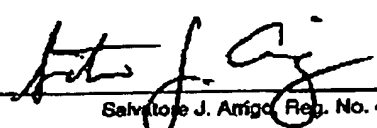
SERIAL NUMBER: 10151304	FILING DATE: 05/21/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 10151305	FILING DATE: 05/21/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 10190611	FILING DATE: 07/09/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 10190617	FILING DATE: 07/09/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 10234854	FILING DATE: 09/05/2002
PATENT NUMBER:	ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 10914161	FILING DATE: 08/10/2004
PATENT NUMBER:	ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 10915338	FILING DATE: 08/11/2004
PATENT NUMBER:	ISSUE DATE:
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 10909845	FILING DATE: 08/03/2004
PATENT NUMBER:	ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 11068903	FILING DATE: 03/02/2005
PATENT NUMBER:	ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER	
SERIAL NUMBER: 08802282	FILING DATE: 02/19/1997
PATENT NUMBER: 6147276	ISSUE DATE: 11/14/2000
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS	
SERIAL NUMBER: 08803165	FILING DATE: 02/19/1997
PATENT NUMBER: 6252133	ISSUE DATE: 06/26/2001
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY	
SERIAL NUMBER: 09650285	FILING DATE: 08/29/2000

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL  
NUCLEI WHILE MAINTAINING CORRECT PLOIDY

017336/0136 PAGE 4

SHAREILL COLES, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION



U.S. 14/2000 <b>RECORDATION COVER SHEET</b> <b>PATENTS ONLY</b>		U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 8960.0002-02 Attorney Customer Number: 22,852	
To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.		Mail Stop Assignment Recordation Services	
1. Name of conveying party(ies): (1) Roslin Institute (Edinburgh) (Dated: June 30, 2003)		2. Name and address of receiving party(ies): Name: Roslin (Edinburgh)	
Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No See Attachment A		Internal Address: Roslin	
3. Nature of conveyance:		Street Address:	
<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	City: Midlothian, EH26 9PS	
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	State: The United Kingdom	Zip Code: [Text]
<input type="checkbox"/> Joint Research Agreement	<input type="checkbox"/> Government Interest Assignment	Additional name(s) & Address(es) attached?	
<input type="checkbox"/> Executive Order 9494, Confirmatory License	<input type="checkbox"/> Other:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Execution Date: [Date(s)]: (1) June 30, 2003 (2) June 10, 2003 (3) May 22, 2003			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: [Type appropriate information]			
A. Patent Application Number(s): 08/802,282 08/803,185		B. Patent Number(s): 6,147,276 6,252,133 6,525,243	
Additional numbers attached? <input checked="" type="checkbox"/> Yes See Attachment B <input type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved: 23	
Name:		7. Total fee (37 CFR 1.21(h) and 3.41): \$40	
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP.		<input type="checkbox"/> Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916)	
Street Address: 901 New York Avenue, N.W.		<input checked="" type="checkbox"/> Authorized to be charged to deposit account	
City: Washington, D.C.			
State:	Zip: 20001-4413	8. Deposit Account No.: 06-0916	
9. Statement and signature.			
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.			
Signed:  Salvatore J. Arico, Reg. No. 46,063		3/14/06 Date	
Total number of pages including cover sheet, attachments and documents: 10			

**1. (continued) Attachment A: Additional Conveying Parties**

- (2) Secretary of State for Environment, Food & Rural Affairs (Dated: June 10, 2003)  
("The Secretary of State") acting through the  
Department for the Environment, Food & Rural Affairs ("DEFRA")  
formerly known as the Ministry for Agriculture Fisheries and Food ("MAFF")
- (3) Biotechnology and Biological Sciences Research Council ("BBSRC")  
(Dated: May 22, 2003)

**4. (continued) Attachment B Patent Application Nos.****A. U.S. Patent Application/Serial No.**

09/225,233  
09/658,862  
09/650,194  
09/650,285  
09/973,701  
09/989,125  
09/989,128  
09/989,126  
10/118,337  
10/151,304  
10/151,305  
10/190,611  
10/190,617  
10/234,854  
10/914,161  
10/915,338  
10/909,845  
11/068,903

C' - CLK  
C - DEEP**ASSIGNATION****BY**

**ROSLIN INSTITUTE (EDINBURGH)** incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("Roslin");

**THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD & RURAL AFFAIRS** of Nobel House, 17 Smith Square, London, SW1P 3JR ("the Secretary of State") acting through the Department for the Environment, Food & Rural Affairs ("DEFRA") formerly known as the Ministry for Agriculture Fisheries and Food ("MAFF"); and

**BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL** whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH ("BBSRC");

**In favour of**

**ROSLIN INSTITUTE (EDINBURGH)** incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("Roslin").

**WHEREAS:**

- (A) Roslin, the Secretary of State and BBSRC are legal and beneficial owners of the patents and patent applications set out in the Schedule annexed and identified as relative hereto ("the Patents").
- (B) Roslin, the Secretary of State and BBSRC have agreed to assign any rights and interest they may have in the Patents to Roslin on the terms set out in this Assignment.

**IT IS AGREED** as follows:**1. ASSIGNATION**

In consideration of the sum of £1 to be paid by each of Roslin, the Secretary of State and BBSRC to each of Roslin, the Secretary of State and BBSRC (the receipt and sufficiency of which is hereby acknowledged) Roslin, the Secretary of State and BBSRC hereby assign to Roslin:

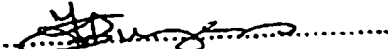
- 1.1 all of its right, title and interest in and to the Patents; and

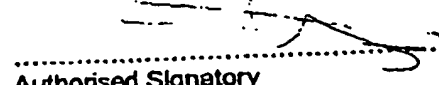
- 1.2 all rights and powers arising or accrued therefrom (whether under statute or common law) including the right to sue for damages and other remedies in respect to any prior infringement of the assigned rights in or in respect of the Patents and to retain any and all sums obtained through such actions and the right to apply for, prosecute and obtain patent or similar protection throughout the world in respect of the inventions therein including any rights to claim priority therefrom so that the grant of any such patent or similar protection shall be in the name of and vest in Roslin.

## 2. LAW AND JURISDICTION

This Assignment shall be governed by and construed in accordance with Scots law and the parties agree to submit to the non-exclusive jurisdiction of the Scottish courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule are executed as follows:

Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by J. W. WITHERS, duly authorised signatory, at Roslin on 20 June 2003 before the following witness:

  
Witness

  
Authorised Signatory


FRANCES BURGESS  
Full Name

% ROSLIN INSTITUTE  
Address

ROSLIN

P.A.  
Occupation

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by DR D. MCDONAGH, duly authorised signatory, at SWINDON on 22 MAY 2003 before the following witness:

  
Witness

  
Authorised Signatory

MARY McDONAGH  
Full Name

BSSAC, POLARIS HOUSE  
Address

NOVA STAR AVE, SLANDERS  
ADMIN MANAGER INNOVATION UNIT  
Occupation

Subscribed for and on behalf of THE SECRETARY OF STATE FOR THE ENVIRONMENT,  
FOOD & RURAL AFFAIRS by D: A. R. BURNE, duty authorised  
signatory at LONDON on 10 June 2003 2003 before the  
following witness:

G. Bacon  
Witness

  
Authorised Signatory

EDWARD GRAHAM BACON  
Full Name

CROMWELL HOUSE, LONDON SW1P 3TH  
Address

HEAD OF BRANCH B  
RESEARCH POLICY & INTERNATIONAL DIVISION, DEFRA  
Occupation

Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by  
, at on 2003 before the following witness:-

Witness

Full Name

Address

Occupation

This is the Schedule referred to in the foregoing Assignment by (1) Roslin Institute (Edinburgh); (2) Department for the Environment, Food & Rural Affairs; and (3) Biotechnology and Biological Sciences Research Council in favour of Roslin Institute (Edinburgh).

## THE PATENTS

### 1. Quiescent Cell Populations for Nuclear Transfer (Quiescent Cells)

Priority Date: 31 August 1995

Priority Application no.: GB 9517780.4 filed in the name of ROSLIN INSTITUTE (EDINBURGH)

International Application no.: PCT/GB96/02099 filed in the name of ROSLIN INSTITUTE (EDINBURGH)

International Filing Date: 30 August 1996

\* - Indicates divisional application filed

† - European patent application designates: AT, BE, CH/LI, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI

Country	Geron ref.	K&S ref.	Application no.	Publication / Grant no.	Status
USA	700/201	P18787US	08/802,282	6,147,276	Granted
USA*	700/202	J18787US	09/225,233	-	Pending
United Kingdom	700/201UK	V18787GB	9802915.0	2318578	Granted
United Kingdom*	700/202UK D	J18787GB	9824304.1	2331751	Granted
EPO	700/201EP	P18787EP	96928587.3	0849990	Granted
Austria	700/201EP	P18787EP	96928587.3	-	Granted
Belgium	700/201EP	P18787EP	96928587.3	-	Granted
Switz./Liechtenstein	700/201EP	P18787EP	96928587.3	-	Granted
Germany	700/201EP	P18787EP	96928587.3	-	Granted
Denmark	700/201EP	P18787EP	96928587.3	-	Granted
Spain	700/201EP	P18787EP	96928587.3	-	Granted
France	700/201EP	P18787EP	96928587.3	-	Granted
Ireland	700/201EP	P18787EP	96928587.3	-	Granted
Italy	700/201EP	P18787EP	96928587.3	-	Granted
Luxembourg	700/201EP	P18787EP	96928587.3	-	Granted
Monaco	700/201EP	P18787EP	96928587.3	-	Granted
Netherlands	700/201EP	P18787EP	96928587.3	-	Granted
Sweden	700/201EP	P18787EP	96928587.3	-	Granted
Slovenia	700/201EP	P18787EP	96928587.3	-	Granted

Country	Geron ref.	K&S ref.	Application no.	Publication / Grant no.	Status
EPO <sup>1*</sup>	700/202EP D	J18787EP	98203752.5	0930009	Pending
EPO <sup>1*</sup>	700/203EP D	K18787EP	99204105.3	1005789	Pending
South Africa	700/201SA	P18787ZA	96/7390	96/7390	Granted
Czech Republic	700/201CZ	P18787CZ	PV608-98	-	Abandoned
Hungary	700/201HU	P18787HU	P9900234	-	Abandoned
Norway	700/201NO	P18787NO	980845	-	Abandoned
Poland	700/201PL	P18787PL	P325331	-	Abandoned
Russian Federation	700/201/RU	P18787RU	98105782	-	Abandoned
Ukraine	700/201/UA	P18787UA	98031551	-	Abandoned
Canada	700/201CA	P18787CA	2228568	-	Pending
Brazil	700/201BR	P18787BR	9610034-6	-	Pending
Mexico	700/201MX	P18787MX	981646	-	Pending
Cuba	700/201CU	P18787CU	28/98	-	Abandoned
Australia	700/201AU	P18787AU	68310/96	716956	Granted
Australia	700/202AU D	J18787AU	35418/00	-	Pending
China	700/201CN	P18787CN	96197891.0	-	Pending
Israel	700/201IL	P18787IL	123298	-	Abandoned
Japan	700/201JP	P18787JP	509996/96	-	Pending
South Korea	700/201KR	P18787KR	701381/98	-	Pending
New Zealand	700/201NZ	P18787NZ	316149	316149	Granted
New Zealand*	700/202NZ D	J18787NZ	334288	334288	Granted
New Zealand*	700/203NZ D	K18787NZ	337311	-	Pending
Singapore	700/201SG	P18787SG	9801334-5	50267	Granted
Singapore*	700/202SG D	J18787SG	9800937-5	75155	Granted
Vietnam	700/201VN	P18787VN	19980153	2746	Abandoned
Hong Kong	700/201HK	P18787HK	98104138.8	1004938	Granted
Hong Kong*	700/202HK D	J18787HK	99104594.4	1019394	Granted



## 2. Unactivated Oocytes and Cytoplasm Recipients for Nuclear Transfer (Magic)

Priority Date: 31 August 1995

Priority Application no.: GB 9517779.6 filed in the name of ROSLIN INSTITUTE (EDINBURGH)

International Application no.: PCT/GB96/02098 filed in the name of ROSLIN INSTITUTE (EDINBURGH)

International Filing Date: 30 August 1996

\* - Indicates divisional/continuation application filed

† - European patent application designates: AT, BE, CH/LI, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI

- (1) - USSN 09/658,862 divisional from USSN 08/803,165
- (2) - USSN 09/650,194 continuation of USSN 08/803,165
- (3) - USSN 09/650,285 continuation of USSN 08/803,165
- (4) - USSN 09/973,701 continuation of USSN 09/650,285
- (5) - USSN 09/989,125 continuation of USSN 09/650,285
- (6) - USSN 09/989,128 continuation of USSN 09/650,285
- (7) - USSN 09/989,126 continuation of USSN 09/650,285
- (8) - USSN 10/118,337 continuation of USSN 09/989,125
- (9) - USSN 10/151,304 continuation of USSN 09/989,128
- (10) - USSN 10/151,305 continuation of USSN 09/989,126
- (11) - USSN 10/190,611 continuation of USSN 09/650,285
- (12) - USSN 10/190,617 continuation of USSN 09/650,285
- (13) - USSN 10/234,854 continuation of USSN 10/151,305

Country	Geron ref.	K&S ref.	Application no.	Publication / Grant no.	Status
USA	710/201	P18826US	08/803,165	6,252,133	Granted
USA <sup>*(1)</sup>	710/202 D	J18826US	09/658,862	-	Pending
USA <sup>*(2)</sup>	710/204 C	V18826US	09/650,194	-	Pending
USA <sup>*(3)</sup>	710/203 C	W18826US	09/650,285	-	Pending
USA <sup>*(4)</sup>	710/210 C	W18826US-1	09/973,701	-	Pending
USA <sup>*(5)</sup>	710/205 C	W18826US-2	09/989,125	-	Pending
USA <sup>*(6)</sup>	710/206C	W18826US-3	09/989,128	-	Pending
USA <sup>*(7)</sup>	710/207C	W18826US-4	09/989,126	-	Pending
USA <sup>*(8)</sup>	710/211C	W18826US-5	10/118,337	-	Abandoned
USA <sup>*(9)</sup>	710/212C	W18826US-6	10/151,304	-	Abandoned
USA <sup>*(10)</sup>	710/213C	W18826US-7	10/151,305	-	Abandoned
USA <sup>*(11)</sup>	710/209C	W18826US-8	10/190,611	-	Abandoned
USA <sup>*(12)</sup>	710/214C	W18826US-9	10/190,617	-	Pending
USA <sup>*(13)</sup>	-	W18826US-10	10/234,854	-	Pending
United Kingdom	710/201UK	V18826GB	9802916.8	2318792	Granted
United Kingdom*	710/202UK D	J18826GB	9926730.4	2340493	Granted
EPO†	710/201EP	P18826EP	96928586.5	0847237	Pending
South Africa	710/201SA	P18826ZA	96/7383	96/7383	Granted
Czech Republic	710/201CZ	P18826CZ	PV604-98	-	Abandoned
Hungary	710/201HU	P18826HU	P9802485	-	Abandoned
Norway	710/201NO	P18826NO	98084E	-	Abandoned

Country	Geron ref.	K&S ref.	Application no.	Publication / Grant no.	Status
Poland	710/201PL	P18826PL	P325336	-	Abandoned
Russian Federation	710/201RU	P18826RU	98105617	-	Abandoned
Ukraine	710/201UA	P18826UA	98031552	-	Abandoned
Canada	710/201CA	P18826CA	2228657	2228657	Pending
Brazil	710/201BR	P18826BR	9610013-3	-	Pending
Mexico	710/201MX	P18826MX	981645	-	Pending
Mexico*	710/202MX D	J18826MX-1	PA/a/2001/010 145	-	Pending
Cuba	710/201CU	P18826CU	29/98	-	Abandoned
Australia	710/201AU	P18826AU	68309/96	728809	Granted
Australia*	710/202AU D	J18826AU	28013/01	-	Pending
Australia*	710/203AU D	K18826AU	28014/01	-	Pending
China	710/201CN	P18826CN	96197892.9	-	Pending
Israel	710/201IL	P18826IL	123417	-	Abandoned
Japan	710/201JP	P18826JP	509995/96	-	Pending
South Korea	710/201KR	P18826KR	98-701382	-	Pending
New Zealand	710/201NZ	P18826NZ	316148	316148	Granted
New Zealand*	710/202NZ D	J18826NZ	335407	335407	Granted
New Zealand*	710/203NZ D	K18826NZ	504101	-	Pending
Singapore	710/201SG	P18826SG	9801330-3	-	Pending
Singapore*	710/201SG D	J18826SG	9800941-7	75919	Granted
Vietnam	710/201VN	P18826VN	S19980152	2747	Abandoned
Hong Kong	710/201HK	P18826HK	98104135.1	1004937	Granted
Hong Kong*	710/202HK D	J18826HK	00103527.6	1024381	Granted

Signed on behalf of Roslin .....

Signed on behalf of DEFRA .....

Signed on behalf of BBSRC .....

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